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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/507,975	06/27/2005	Masami Nishikawa	42479-8600	5651
21611 75	590 09/22/2006		EXAMINER	
SNELL & WI			KRISHNAMUR	THY, RAMESH
600 ANTON B SUITE 1400	OULEVARD		ART UNIT	PAPER NUMBER
COSTA MESA	., CA 92626		3753	·*
			DATE MAIL ED: 09/22/2004	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Summary		10/507,975	NISHIKAWA ET AL.			
		Examiner	Art Unit			
		Ramesh Krishnamurthy	3753			
The MAILING DAT Period for Reply	E of this communication app	pears on the cover sheet with the c	orrespondence address			
WHICHEVER IS LONGE - Extensions of time may be availe after SIX (6) MONTHS from the - If NO period for reply is specified - Failure to reply within the set or of	ER, FROM THE MAILING DA able under the provisions of 37 CFR 1.13 mailing date of this communication. If above, the maximum statutory period wextended period for reply will, by statute, later than three months after the mailing	Y IS SET TO EXPIRE 3 MONTH(ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE to date of this communication, even if timely filed	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) Responsive to com	nmunication(s) filed on 09 M	lay 2006.				
2a) This action is FINA						
3) Since this applicati	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordan	ice with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims						
4a) Of the above cl 5) ☐ Claim(s) is/a 6) ☑ Claim(s) <u>1 - 6, 9 -</u> 7) ☑ Claim(s) <u>7,8 and 1</u>	12 and 14 is/are rejected.	wn from consideration.				
Application Papers	·	·				
9) ☐ The specification is 10) ☑ The drawing(s) filed Applicant may not re Replacement drawin	quest that any objection to the g sheet(s) including the correct	er. are: a) ☐ accepted or b) ☒ object drawing(s) be held in abeyance. Section is required if the drawing(s) is obtained. Section is required if the drawing(s) is obtained.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 1	119					
12) Acknowledgment is a) All b) Some 1. Certified cop 2. Certified cop 3. Copies of the application for	s made of a claim for foreign * c) None of: bies of the priority documents bies of the priority documents e certified copies of the prior from the International Bureau	s have been received in Applicati rity documents have been receive	on Noed in this National Stage			
Attachment(s)						
Notice of References Cited (Fig. 2) Notice of Draftsperson's Pater 3) Information Disclosure Stater Paper No(s)/Mail Date	ent Drawing Review (PTO-948) ment(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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This office action is responsive to communications filed 05/09/2006.

Claims 1 – 14 are pending.

1. Figures 4 and 5 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claim 14 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claim 14 recites the limitation "the openings" in line 1. There is insufficient antecedent basis for this limitation in the claim. In this office action claim 14 is taken to depend from claim 13 just as claim 8 depending from claim 7.
- 5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the

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applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1 – 5 and 9 - 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Ollivier (US 6,363,958).

In a semiconductor production assembly (2) utilizing a source of fluid, the mass flow control module (10) that can control fluid flow and be installed as a unitary component, comprising: a housing block member (7) having a fluid passageway (1) connected to the source of fluid, mounted on the housing block member from an upstream position is a pressure control valve unit (16), a flow rate sensor unit (5) and a flow rate control valve unit (22); a pressure sensor unit (16) operatively mounted in the fluid passageway; and a control unit (3) operatively connected to the pressure control valve unit, the flow rate sensor unit, the flow rate control valve unit and the pressure sensor unit whereby the control unit can automatically set and maintain a constant flow rate despite changes in fluid pressure. A second pressure sensor unit (6) is mounted between the pressure control valve (16) and the flow rate sensor (5) and operatively connected to the control unit (3).

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

9. Claims 6 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ollivier (US 6,363,958) as applied to claims 1 – 5 and 9 - 11 above, and further in view of Moriya et al. (US 5,439,026).

The patent to Ollivier discloses the claimed invention with the exception of explicitly disclosing a filter mounted upstream of the pressure control valve unit.

Moriya et al. discloses a filter (24b, c) mounted in the passageway upstream of a pressure control valve unit (27) for the purpose of providing a clean supply of fluid to components downstream of the filter.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided Ollivier a filter mounted in the passageway upstream of a pressure control valve unit for the purpose of providing a clean supply of fluid to components downstream of the filter, as recognized by Moriya et al.

10. Claims 7, 8 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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11. Claim 14 would be allowable if rewritten to overcome the rejection(s) under 35

U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the

limitations of the base claim and any intervening claims, including claim 13.

12. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramesh Krishnamurthy whose telephone number is (571) 272 - 4914. The examiner can normally be reached on Monday - Friday from

10:00 AM to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric Keasel, can be reached on (571) 272 - 4929. The fax phone number for the organization where this application or proceeding is assigned is (571) 273 -

8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ramesh Krishnamurthy, Ph.D., PE

Primary Examiner

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